

FIG. 1
PRIOR ART

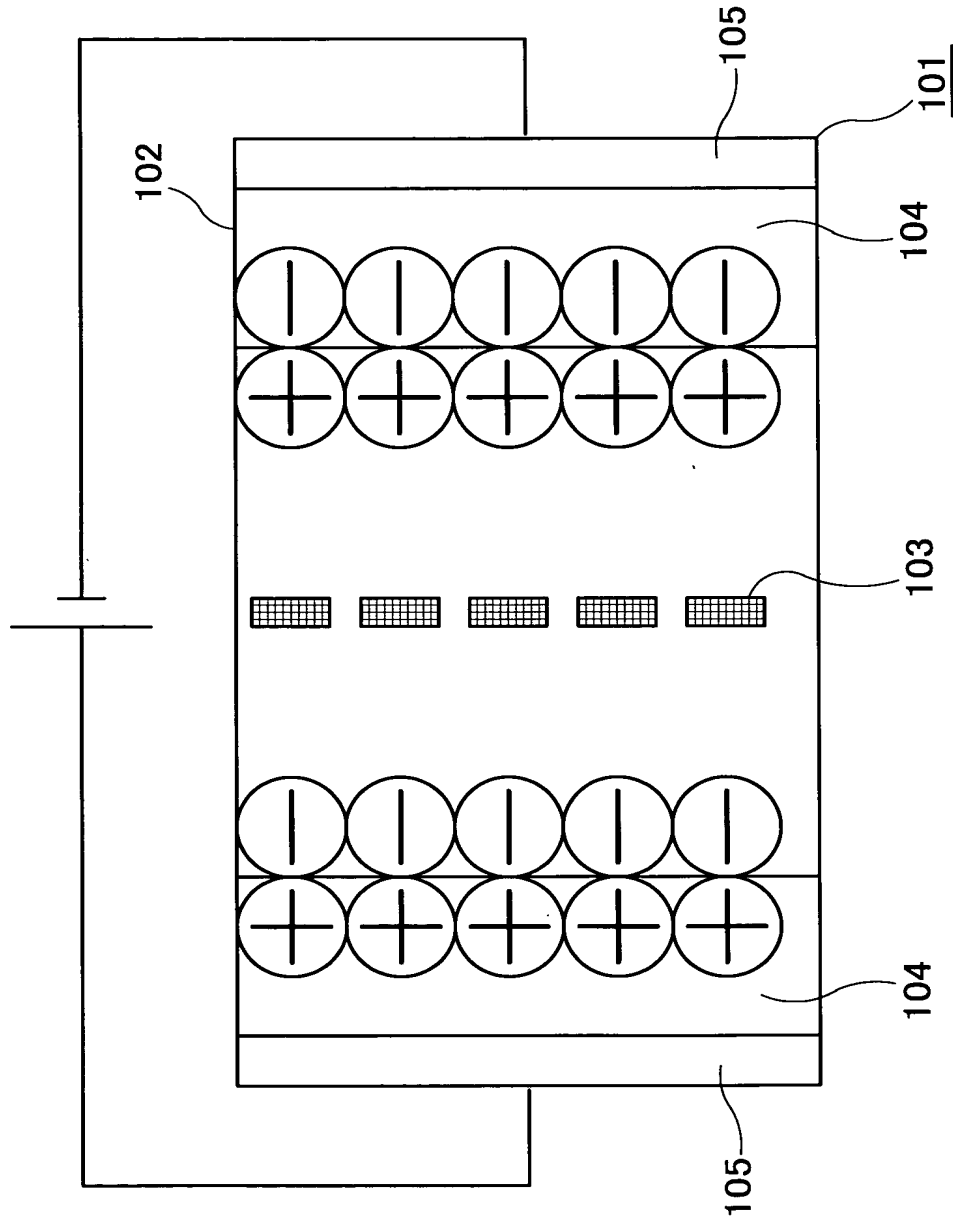


FIG.2A

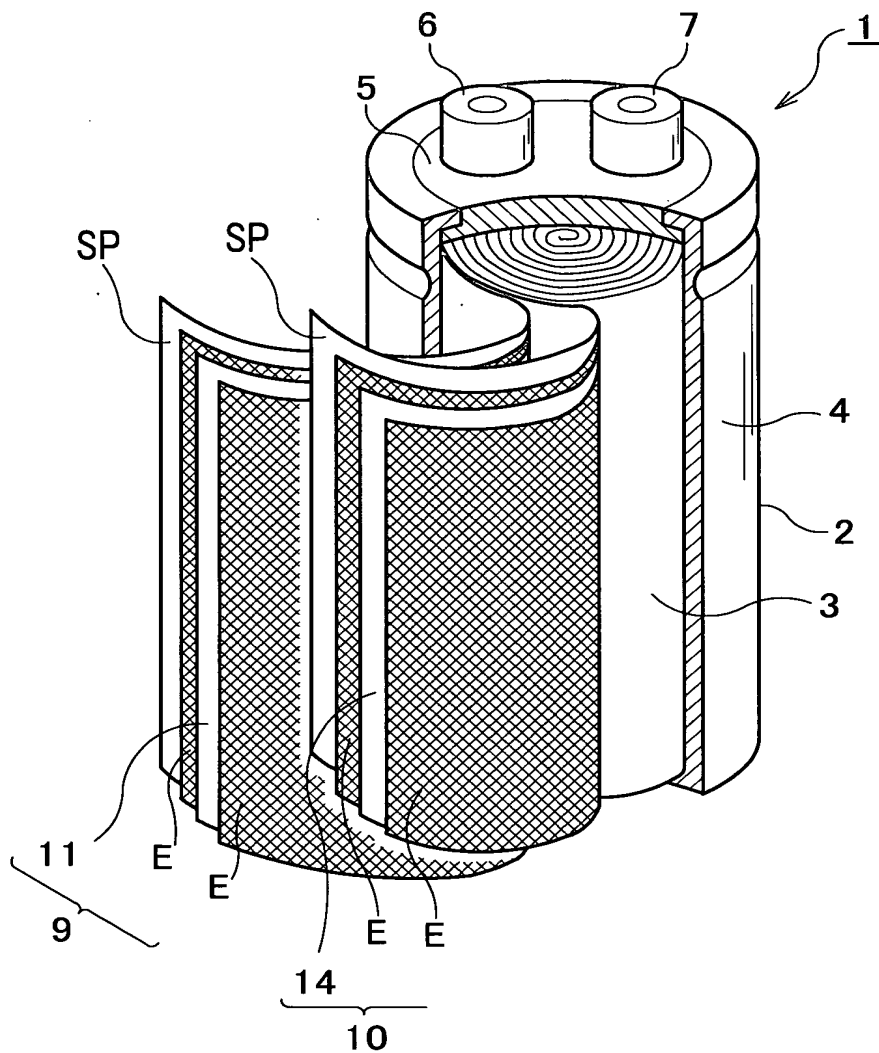


FIG.2B

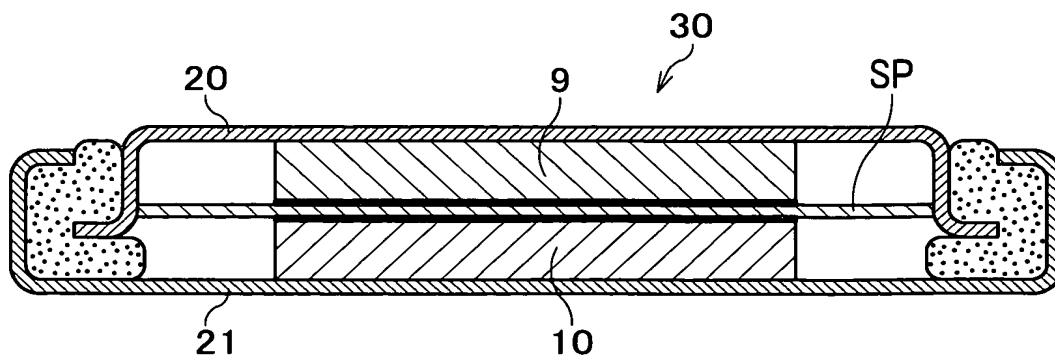


FIG.3A

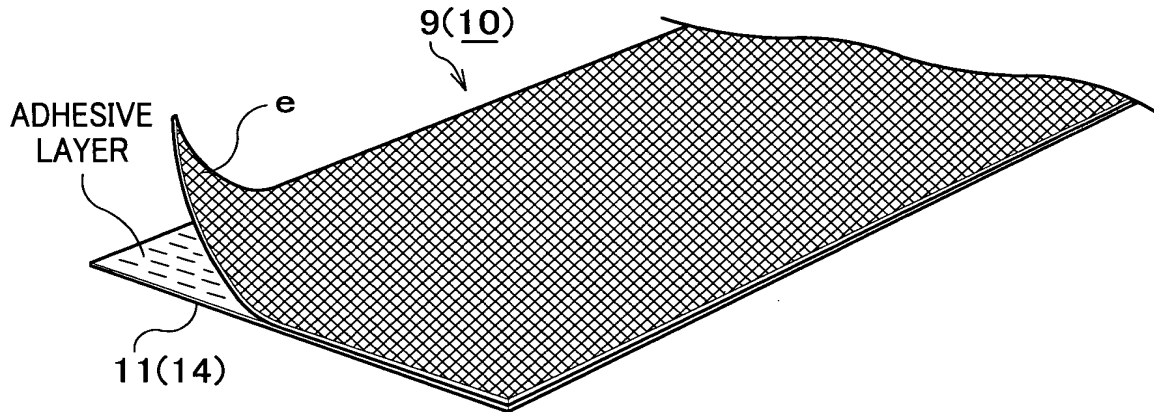


FIG.3B

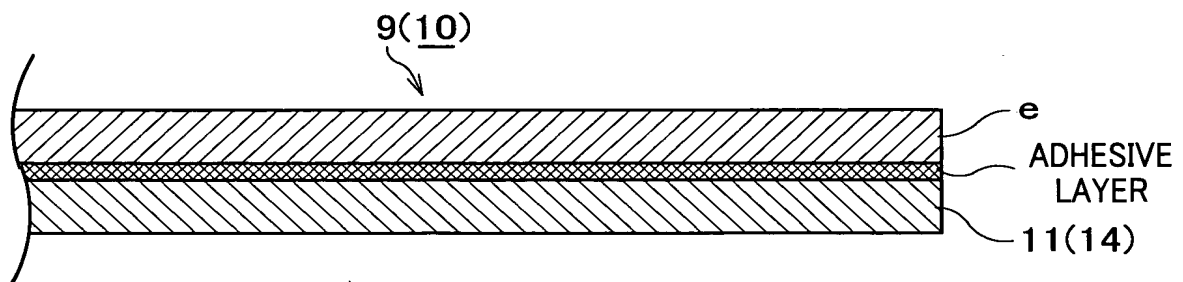


FIG.4A

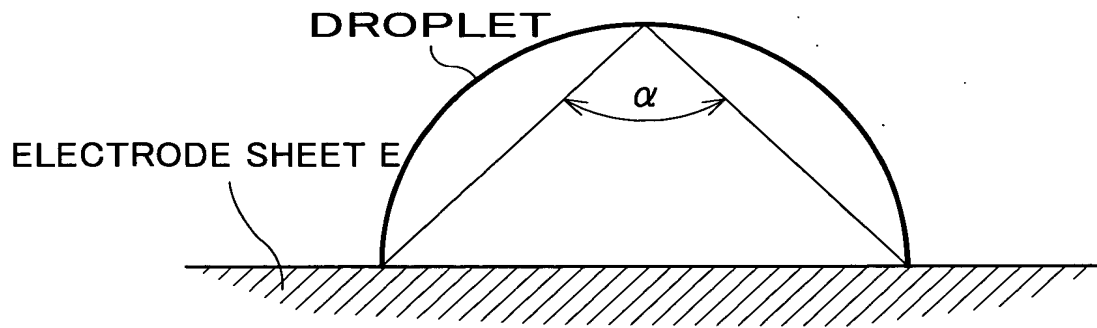


FIG.4B

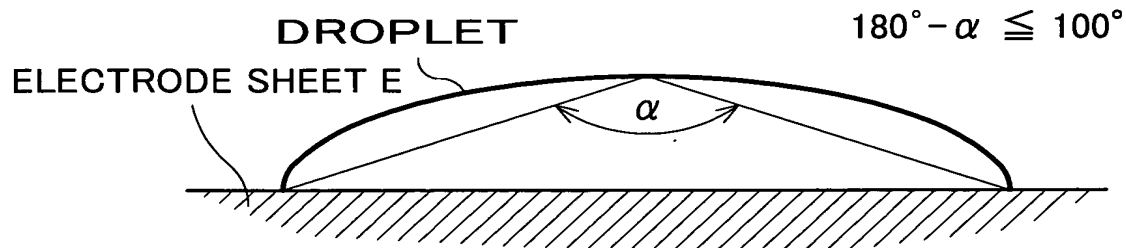
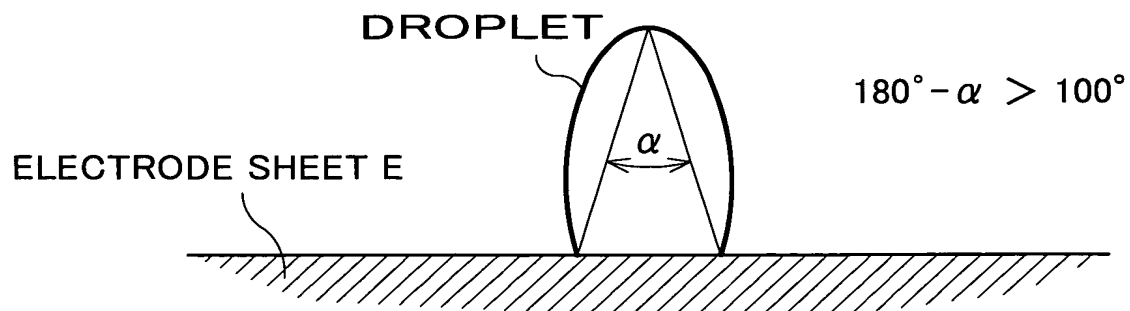


FIG.4C



The flowchart illustrates the recycling process for larger particles, starting with the **MIXING PROCESS (S1)**, which receives input from the left. The output of S1 goes to the **KNEADING PROCESS (S2)**, depicted as a hexagonal chamber with two rotating rollers. From S2, the material proceeds to the **CRUSHING PROCESS (S3)**, shown as a series of four vertical stages with horizontal crushing elements. The output of S3 is split: one path leads to the **CLASSIFICATION PROCESS (S4)**, and the other path leads to the **ELIMINATION OF LARGER PARTICLES**. The output of S4 is also split: one path leads to the **ELIMINATION OF FINER PARTICLES**, and the other path leads to the **PRELIMINARY FORMING PROCESS (S6)**. The output of S6 goes to the **ROLLING PROCESS (S7)**, which shows two rollers. The output of S7 goes to the **BONDING PROCESS (S8)**, which shows two rollers with a bonding material being applied. The output of S8 is the final product, a long, thin, rectangular strip.

FIG.6

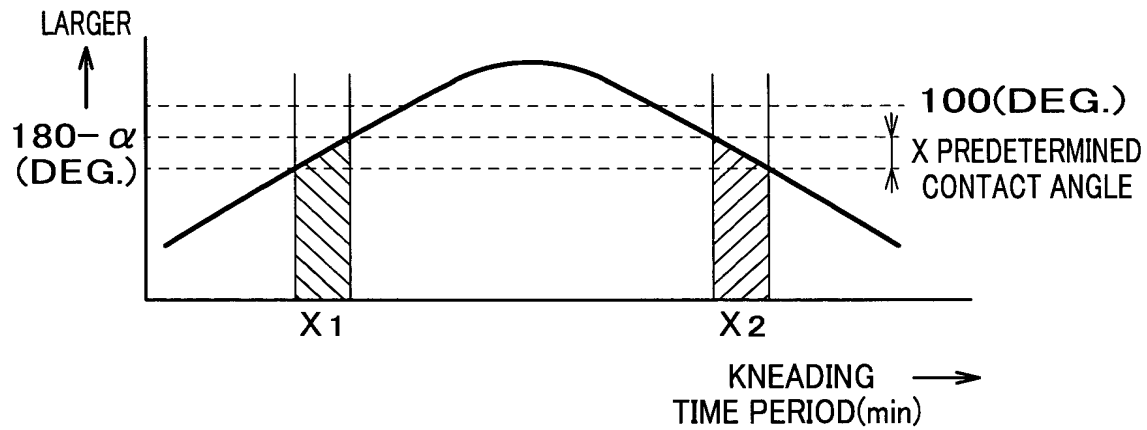


FIG.7

Kneading Time Period(min)	Contact Angle(deg.)	Electrical Resistance($\Omega \cdot \text{cm}^2$)	Electrostatic Capacity (F/cubic centimeter)
2	10	6.5	15
4	35	6.6	17
6	60	6.7	18
8	86	6.7	18
10	101	7.2	18
20	28	6.5	16

FIG.8

TEFRON Mass Ratio(%)	Contact Angle(deg.)	Electrical Resistance($\Omega \cdot \text{cm}^2$)	Electrostatic Capacity (F/cubic centimeter)
6	72	6.5	18
10	86	6.7	18
12	98	6.8	17
16	113	7.6	14

FIG.9

	Mass Ratio	Kneading Time Period(min.)	Contact Angle (deg.)	Electrical Resistance ($\Omega \cdot \text{cm}^2$)	Electrostatic Capacity (F/cubic centimeter)
Sample 2	82:8:10	2	≤ 10	6.5	15
Sample 3	82:8:10	4	35	6.6	17
Sample 4	82:8:10	6	60	6.7	18
Sample 1	82:8:10	8	86	6.7	18
Reference 1	82:8:10	10	101	7.2	18
Sample 5	82:8:10	20	28	6.5	16
Sample 6	86:8:6	8	72	6.5	17
Sample 7	80:8:12	8	98	6.8	17
Reference 1	76:8:16	8	113	7.2	14

FIG. 10A

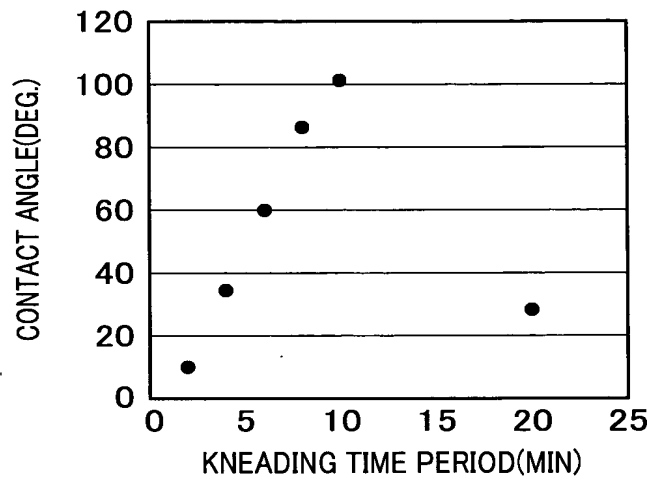


FIG. 10B

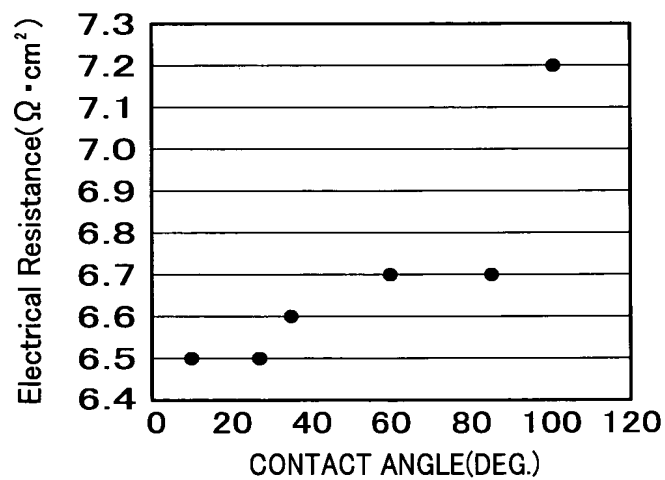


FIG. 10C

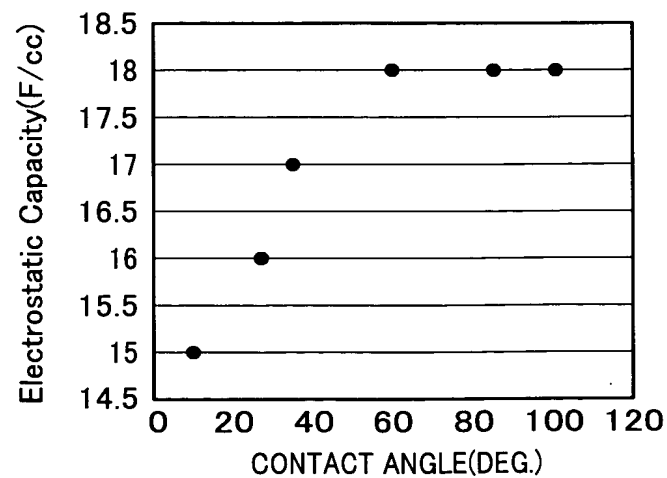


FIG. 11A

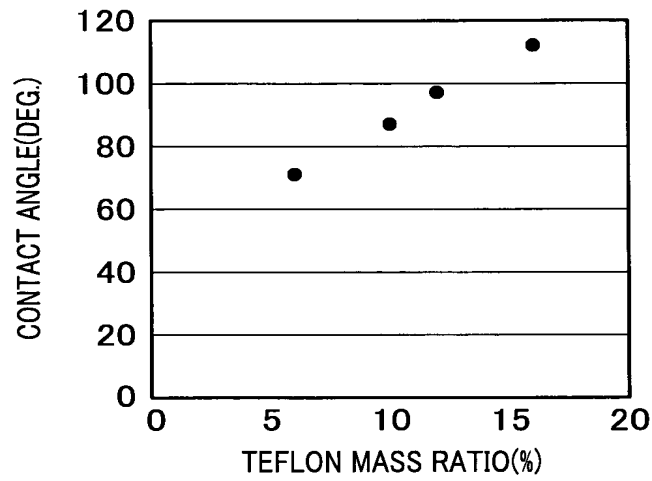


FIG. 11B

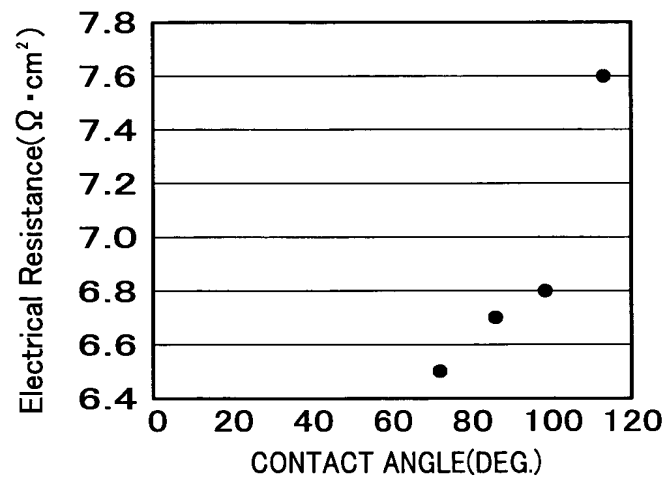


FIG. 11C

